

Participant Information and Consent Form

Data collection for the DAST Dataset

Request for Explicit Consent for the Collection of Biometric Data for Research Purposes:

Purpose of processing

The participant is invited to aid and participate in the construction of a biometric dataset which will be used for research and development purposes related to improving the accuracy of biometric algorithms including morphing attacks detection and face image quality assessment. With this data we want to support the development of better algorithms, and therefore the reliability of biometrics recognition systems. Because biometric recognition is increasingly used for security and border checks, improving the accuracy is of substantial public interest.

The dataset will be constructed in the context of the OFIQ project¹, which is developing an Open Source Face Image Quality (OFIQ) software. The major purpose of this data collection is to investigate and improve the fairness of biometric algorithms, meaning equivalent performance for various demographic groups (e.g., gender, age, skin-tone). Thus the acquisition of face images and colorimetric estimation of the real skin-tone is needed. The captured images will constitute the **D**Armstadt **S**kin **T**one (DAST) database, which will be for the internal part (DAST-IN) be accessible only to the OFIQ development team (see data controllers section) and for the external part (DAST-EX) to all interested researchers.

Legal Basis

The legal basis for the collection and processing of alphanumeric and biometric data as explained herein and for the specified purposes is your explicit consent according to Art. 6 para 1 lit a) and Art. 9 para 2 lit a) GDPR, and the necessity for scientific research according to Sec. 24 HDSIG, subject to the safeguards mentioned hereunder and as further defined and detailed.

Description of the Personal Data Collection and Processing

The participant will be asked to use a face image enrolment station (simulating a passport application) and a colorimeter² measurement (to estimate the skin tone pigmentation). In addition, contact details such as the participant's name and email will be collected and stored separately from the face images, along with a newly generated pseudo ID, allowing the linking of the contact details to the biometric data only if needed. Gender and age will also be collected and stored with the biometric data, constituting the biometric dataset.

To follow the safeguard principle according to Art. 32 GDPR, this biometric dataset will be highly secured by access control mechanisms. The pseudo ID will be used to facilitate the destruction of data in case of withdrawal of your consent. In such cases, all data related to the participant will be permanently deleted and no longer used.

In case of your explicit agreement hereunder, biometric data, such as your face images (without any name or other identifier), may also be published in research presentations and scientific publications (both written and electronic), accessible and distributed worldwide until withdrawal of your agreement.

Data Controllers DAST-IN

The collected data DAST-IN will only be stored by Hochschule Darmstadt (Germany) (HDA), NTNU-University (Norway) and the OFIQ-team of secunet (German). These institutions are joint controllers for the data collected according to Art. 26 GDPR. They have agreed that HDA will provide this information, and will serve as the contact point for the exercise of all participants' rights. The joint controllers agree that they will share the collected data (with pseudo-ID only) for the constitution of the research database. The OFIQ project is scheduled for completion by the end of 2027; however, the collected data will be stored for up to 10 years thereafter.

¹ <https://christoph-busch.de/projects-ofiq.html>

² <https://www.cortex.dk/skin-analysis/colorimeter-dsm-4/>

The (joint) data controlling institution, which can be contacted by you, is Hochschule Darmstadt
Fachbereich Informatik, Schoefferstrasse 3, D-64295 Darmstadt, Germany
Email: christoph.busch@h-da.de

Data Controllers DAST-EX

The wider subset as the external part (DAST-EX) will be provided to all interested researchers, which enter a dataset license agreement with Hochschule Darmstadt. The licensees will become additional joint controllers for the data collected according to Art. 26 GDPR. The joint controllers agree HDA will provide this information, and will serve as the contact point for the exercise of all participants' rights. The agreements with the licensees ensure that your rights as a data subject are safeguarded and that the use of data does not go beyond the scope of the Hochschule Darmstadt itself.

The (joint) data controlling institution, which can be contacted by you, is Hochschule Darmstadt
Fachbereich Informatik, Schoefferstrasse 3, D-64295 Darmstadt, Germany
Email: christoph.busch@h-da.de

Additional information

- The participant is informed of the *right to request access, rectification, erasure or restriction or to object and portability* subject to the conditions and as set forth in the General Data Protection Regulation and national data protection legislation applicable;
- The participant may *withdraw* her/his consent any time *by contacting* HDA in the way mentioned;
- *A complaint can be lodged* to the supervisory authority (data protection authority) of your country.

Based on the information above, the participant is invited, but remains fully free to agree or to renounce, to express her/his agreement with the above-described personal data collection and use by signing this consent form.

With their signature the participant confirms the following:

1. The participant has been informed in oral and written / Email form about the content and purpose of the collected data relating to her/him.
2. The participant understands the data use for the stated purpose
3. The participant allows face images to be collected, along with their name, age, gender and email subject to the safeguards as described
4. The participant has been informed that they can request to receive access and insight into the collected data before and during such data is used for research and development purposes.
5. **The participant is aware that participation in the data collection is voluntary and that they are able to withdraw their participation at any time without giving any explanation and all data collected from them will be deleted permanently.**
6. Images will be stored separately from the information containing name, email, age, gender and pseudo ID.

☐ **DAST-IN:** Biometric data (without personal information) will be shared only between above institutions (HDA, NTNU and secunet) and used for research and scientific publication purposes ONLY.

☐ **DAST-EX:** Biometric data (without personal information) will be shared between above institutions and all researchers, which enter a dataset license agreement with Hochschule Darmstadt.

Name:

Age:

Subject-ID:

Email (for contact purposes):

Gender:

☐ Male

☐ Female

I have received information about the project and am willing to participate

Date and signature:
